

NOTICE OF DRAFTSPERSON'S
PATENT DRAWING REVIEWThe drawing(s) filed (insert date) 10-17-02 are

A. approved by the Draftsperson under 37 CFR 1.84 or 1.152.
 B. objected to by the Draftsperson under 37 CFR 1.84 or 1.152 for the reasons indicated below. The Examiner will require submission of new, corrected drawings when necessary. Corrected drawing must be submitted according to the instructions on the back of this notice.

1. DRAWINGS. 37 CFR 1.84(a): Acceptable categories of drawings:	8. ARRANGEMENT OF VIEWS. 37 CFR 1.84(i)
Black & White Color	— Words do not appear on a horizontal, left-to-right fashion when a page is either upright or turned so that the top becomes the right side, even for graphs. Fig(s) _____
— Color drawings are not acceptable until patent is granted.	9. SCALE. 37 CFR 1.84(l)
Fig(s) _____	— Drawing is large enough to show mechanism without crowding when drawing is reduced in size to two-thirds in reproduction. Fig(s) _____
— Fig(s) and post-black, not permitted. Fig(s) _____	10. CHARACTER OF LINES, NUMBERS & LETTERS
2. PHOTOGRAPHS. 37 CFR 1.84(b):	37 CFR 1.84(l)
— Half-tone set is required. Fig(s) _____	— Lines, numbers & letters not uniformly thick and well defined, clear, durable, and black (poor line quality). Fig(s) _____
— Photographs may not be mounted. 37 CFR 1.84(l)(x)	11. SHADING. 37 CFR 1.84(m)
— Poor quality (ball-stone). Fig(s) _____	— Solid black areas pale. Fig(s) _____
3. TYPE OF PAPER. 37 CFR 1.84(c):	— Solid black shading not permitted. Fig(s) _____
— Paper not flexible, strong, white, and durable.	— Shade lines, pale, rough and blurred. Fig(s) _____
Fig(s) _____	12. NUMBERS, LETTERS, & REFERENCE CHARACTERS
— English, no alterations, overcrossings, interlinings, etc.	37 CFR 1.84(p)
— White, copy machine marks not accepted. Fig(s) _____	— Letters and reference characters not plain and legible. Fig(s) _____
— Mylar, vacuum paper is not acceptable (too thin). Fig(s) _____	— Figure legends are poor. Fig(s) _____
4. SIZE OF PAPER. 37 CFR 1.84(f): Acceptable sizes:	— Numbers and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)(1) Fig(s) _____
— 21.0 cm by 29.7 cm (DIN size A4)	— English alphabet not used. 37 CFR 1.84(p)(2)
— 21.6 cm by 29.7 cm (8 1/2 x 11 inches)	— Numbers, letters and reference characters must be at least 32 cm (1 1/8 inch) in height. 37 CFR 1.84(p)(3) Fig(s) _____
— All drawing sheets not the same size.	13. LEAD LINES. 37 CFR 1.84(q)
— Sheets _____	— Lead lines cross each other. Fig(s) _____
— Margins not acceptable. Fig(s) _____	— Lead lines missing. Fig(s) _____
5. MARGINS. 37 CFR 1.84(g): Acceptable margins:	14. NUMBERING OF SHEETS OF DRAWINGS. 37 CFR 1.84(t)
Top 2.5 cm Left 2.5cm Right 1.5 cm Bottom 1.0 cm	— Sheets not numbered consecutively, and in Arabic numerals beginning with number 1. Sheet(s) _____
SIZE: A4 Size	15. NUMBERING OF VIEWS. 37 CFR 1.84(v)
Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm	— Views not numbered consecutively, and in Arabic numerals, beginning with number 1. Fig(s) _____
SIZE: 8 1/2 x 11	16. CORRECTIONS. 37 CFR 1.84(w)
Margins not acceptable. Fig(s) _____	— Corrections not made from prior PTO-948
Top (T) _____ Left (L) _____ Right (R) _____ Bottom (B) _____	— Sheet(s) _____
6. VIEWS. 37 CFR 1.84(h):	17. DESIGN DRAWINGS. 37 CFR 1.152
REMINDER: Specification may require revision to correspond to drawing changes.	— Surface shading shown not appropriate. Fig(s) _____
Partitions. 37 CFR 1.84(h)(2):	— Solid black shading not used for color contrast. Fig(s) _____
— Brackets needed to show figure as one entity.	Fig(s) _____
Fig(s) _____	
— Views not labeled separately or properly.	
Fig(s) <u>11</u> _____	
— Enlarged view not labeled separately or properly.	
Fig(s) _____	
7. SECTIONAL VIEWS. 37 CFR 1.84(h)(3):	
— Hatching not indicated for sectional portions of an object.	
Fig(s) _____	
— Sectional designation should be noted with Arabic or Roman numbers. Fig(s) _____	
COMMENTS FIG. 11 SHOULD BE LABELED AS FIG. 11, 11A-1, 11A-2 AND SO - ON UNTIL ALL OF FIG. 11 HAS BEEN LABELED	

REVIEWER J. CHASE DATE 11-14-02 TELEPHONE NO. 703 365 8830ATTACHMENT TO PAPER NO. 27

Attachment for PTO-948 (Rev. 03/01, or earlier)

6/18/01

The below text replaces the pre-printed text under the heading, "Information on How to Effect Drawing Changes," on the back of the PTO-948 (Rev. 03/01, or earlier) form.

INFORMATION ON HOW TO EFFECT DRAWING CHANGES

1. Correction of Informalities – 37 CFR 1.85

New corrected drawings must be filed with the changes incorporated therein. Identifying indicia, if provided, should include the title of the invention, inventor's name, and application number, or docket number (if any) if an application number has not been assigned to the application. If this information is provided, it must be placed on the front of each sheet and centered within the top margin. If corrected drawings are required in a Notice of Allowability (PTO-37), the new drawings **MUST** be filed within the **THREE MONTH** shortened statutory period set for reply in the Notice of Allowability. Extensions of time may **NOT** be obtained under the provisions of 37 CFR 1.136(a) or (b) for filing the corrected drawings after the mailing of a Notice of Allowability. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

2. Corrections other than Informalities Noted by Draftsperson on form PTO-948.

All changes to the drawings, other than informalities noted by the Draftsperson, **MUST** be made in the same manner as above except that, normally, a highlighted (preferably red ink) sketch of the changes to be incorporated into the new drawings **MUST** be approved by the examiner before the application will be allowed. No changes will be permitted to be made, other than correction of informalities, unless the examiner has approved the proposed changes.

Timing of Corrections

Applicant is required to submit the drawing corrections within the time period set in the attached Office communication. See 37 CFR 1.85(a).

Failure to take corrective action within the set period will result in **ABANDONMENT** of the application.